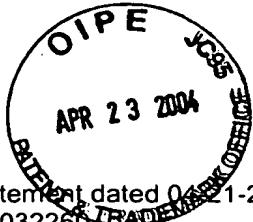


Appl. No. 10/717,855
Information Disclosure Statement dated 04/21-2004
Attorney Docket No. 1217-032260



PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/717,855 Confirmation No. 1711
Applicant : Teruhiko NAWATA et al.
Filed : November 19, 2003
Title : "As-Grown Single Crystal Of Calcium Fluoride"
Group Art Unit : 1765
Examiner : Not yet assigned
Customer No. : 28289

COMMISSIONER FOR PATENTS
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT TRANSMITTED BEFORE MAILING OF FIRST OFFICE ACTION

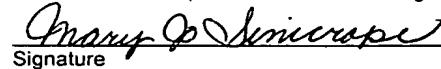
Sir:

Pursuant to 37 C.F.R. §§1.56, 1.97 and 1.98, Applicants hereby submit this Information Disclosure Statement together with a completed Form PTO/SB/08A and a copy of each reference cited.

The Tozawa et al. report "Modification of Optical Material..." , K. Nassau, Journal of Applied Physics and Japanese Publication 21197 are all cited on page 4 of the specification.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Assistant Commissioner for Patents, Washington, D.C. 20231 on April 21, 2004.

Mary Jo Sinicrope
(Name of Person Mailing Document)


Signature

04/21/2004
Date

Prior art references cited in the International Search Report in a corresponding European application are also cited herein. The relevance of these references is set forth in the International Search Report. A copy of the International Search Report is enclosed for the Examiner's convenience.

No fee is believed to be due for the filing of this Information Disclosure Statement as it is being submitted before a first Office Action on the merits. Nevertheless, the Commissioner for Patents is hereby authorized to charge any additional fees which may be required to Deposit Account No. 23-0650. The original and two copies of this Information Disclosure Statement are enclosed.

Respectfully submitted,

WEBB ZIESENHEIM LOGSDON
ORKIN & HANSON, P.C.

By



Kent E. Baldauf
Registration No. 25,826
Attorney for Applicants
700 Koppers Building
436 Seventh Avenue
Pittsburgh, PA 15219-1818
Telephone: 412-471-8815
Facsimile: 412-471-4094



PTO/SB/08A (08-00)

Please type a plus sign (+) inside this box →

Approved for use through 10/31/2001. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995 no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/717,855
(use as many sheets as necessary)				Filing Date	November 19, 2003
				First Named Inventor	Teruhiko NAWATA et al.
				Group Art Unit	1765
				Examiner Name	Not Yet Assigned
				Attorney Docket Number	1217/032260
Sheet	1	of	2		

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴				
		JP (1999)	11-021197	A	Canon Inc	26.01.1999	English Abstract attached
		JP (1999)	11 130594	A	Canon Inc	18.05.1999	English Abstract attached
		EPO	0 939 147	A2	Nikon Corp	01.09.1999	
		WO	02/083998	A1	Corning Inc	24.10.2002	

Examiner Signature _____ **Date Considered** _____

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

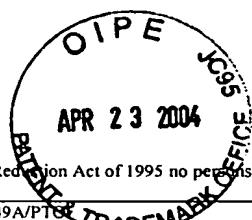
¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O.Box 1450, Alexandria, VA 22313-1450.

Please type a plus sign (+) inside this box →

Approved for use through 10/31/2001. OMB 0651-0031

{W0117335.1}



U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995 no person is required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
Sheet	2	of	2	Application Number	10/717,855
				Filing Date	November 19, 2003
				First Named Inventor	Teruhiko NAWATA et al.
				Group Art Unit	1765
				Examiner Name	Not Yet Assigned
				Attorney Docket Number	1217/032260

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		K. NASSAU, "Application of the Czochralski Method to Divalent Metal Fluorides", Journal of Applied Physics, Vol. 32, No. 10, (1961), pp. 1820-1821, Bell Telephone Laboratories, Inc., Murray Hill, New Jersey, U.S.A.	
		SHINICHIRO TOZAWA, ET AL., "Modification of Optical Material CaF ₂ ", report of technical research by Institute for Material Research of Tohoku University, No. 19 (2001) Japan, (partial English translation attached)	
		J. M. KO, ET AL., "Czochralski growth of UV-grade CaF ₂ single crystals using ZnF ₂ additive as scavenger", Journal of Crystal Growth 222 (2001), pp. 243-248, North-Holland Publishing Co., Amsterdam, NL	

Examiner Signature	Date Considered
--------------------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

APR 23 2004

Appl. No. 10/717,855
Information Disclosure Statement dated 04/21/2004
Attorney Docket No. 1217-032266

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/717,855 Confirmation No. 1711
Applicant : Teruhiko NAWATA et al.
Filed : November 19, 2003
Title : "As-Grown Single Crystal Of Calcium Fluoride"
Group Art Unit : 1765
Examiner : Not yet assigned
Customer No. : 28289

COMMISSIONER FOR PATENTS
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450

CERTIFICATION UNDER 37 C.F.R. §1.97(e)(1)

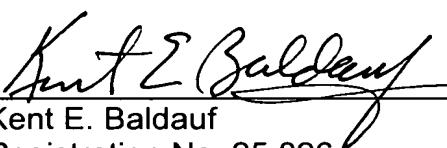
Sir:

I, the undersigned, hereby certify that each item of information cited in the accompanying Information Disclosure Statement was first cited in a communication mailed 10 March 2004 from the European Patent Office in a counterpart European application not more than three months prior to the filing of the accompanying Information Disclosure Statement.

Respectfully submitted,

WEBB ZIESENHEIM LOGSDON
ORKIN & HANSON, P.C.

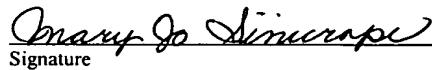
By



Kent E. Baldauf
Registration No. 25,826
700 Koppers Building
436 Seventh Avenue
Pittsburgh, PA 15219-1818
Attorney for Applicants
Telephone: (412) 471-8815
Facsimile: (412) 471-4094

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on April 21, 2004.

Mary Jo Sinicroppe
(Name of Person Mailing Paper)


Signature

04/21/2004
Date